

## **AMENDMENTS TO THE SPECIFICATION**

**Please amend the paragraph beginning on page 1, line 9 as follows:**

In recent years, DVD players ~~have are~~ remarkably ~~comecoming~~ into wide use. One reason for this lies in ease of usage at high-speed playback, instant access to specific video or audio and the like. This greatly relies upon information of a navigation pack that is defined in DVD video format. The navigation pack is located at the head of a VOB (Video Object Unit) which is a data unit defined by DVD standards. In the navigation pack of each VOB, positional information indicating positions of plural VOBs which are located forward and backward of this VOB is included. Therefore, in the DVD player, the playback position can be jumped to a desired position instantaneously. This is because DVD video data is ROM data and positional information of a VOB (hereinafter, referred to as a future VOB) which will be processed later than a target VOB to be processed can be known at the authoring. The VOB is composed of one or more GOPs (a GOP is a data unit in which random access is performed) and, for purposes of explanation, hereinafter assume that a VOB is a GOP.

**Please amend the paragraph beginning on page 2, line 1 as follows:**

In recent years, systems in which AV data (audio/video data) is recorded in real time like DVD recorders or HDD recorders ~~have becomeare becoming~~ widely available. However, in these systems, positional information of future data (data located backward of data which is being recorded at the present time) cannot be written. In a case where data are all recorded at a fixed rate (CBR), this positional information can be written, while in this case the compression efficiency is undesirably reduced. More specifically, systems which record data at variable rates (VBR) in real-time recording devices, such as a DVD recorder and a HDD recorder, include no means for recording information concerning future data like the data recorded in the navigation pack.

**Please amend the paragraph beginning on page 24, line 2 as follows:**

MPEG data stored in a HDD 8 as a first recording medium is read from the HDD 8 and

reproduced by a reproduction means 10, whereby a MPEG stream (AV data) is obtained. As an example of this MPEG stream, there are various kinds such as a transport stream, a program stream and an elementary stream. An analysis means 30 analyzes the position of each GOP on the MPEG stream, and checks the positional relationship between a predetermined GOP and previous and subsequent GOPs thereof. A navigation information addition means 6 adds the positional information which indicates the positions of the previous and subsequent GOPs at a determined position near the head of the predetermined GOP, according to an instruction from the analysis means 30. At this time, the navigation information addition means 6 uses a memory means 19 as required. The memory means 19 may be a semiconductor memory or a recording medium like a HDD. The MPEG stream to which the navigation information is added is recorded by a recording means 7 on an optical disk 9 as a second recording medium. Here, the predetermined GOP to which the navigation information is added is all GOPs which are included in the MPEG stream. However, the GOP to which the navigation information is added may be ones which are selected from all the GOPs included in the MPEG stream based on a certain criterion.

**Please amend the paragraph beginning on page 26, line 17 as follows:**

A video signal decoded by the video decoding means 11 is supplied to the switch S1S-1, as well as inputted to a D/A conversion means 14 and outputted through a terminal 23 as a reproduced video signal. An audio signal decoded by the audio decoding means 12 is supplied to the switch S2, as well as inputted to a D/A conversion means 15 and outputted through a terminal 24 as a reproduced audio signal. The output of the audio delay means 13 is inputted to the switch S3. The output of the switch S6 is inputted to a 1394 I/F means 17 and outputted through a terminal 25 in 1394 format. At this time, the CPU 18 controls the entire operation of the recording/reproduction apparatus.

**Please amend the paragraph beginning on page 28, line 3 as follows:**

Now, the data which has been recorded in the HDD 8 lacks the positional information of the previous and subsequent GOPs, shown by diagonal lines in figure 2, and thus the

reproduction operation is not assured by the normal DVD player. However, the positional information of the previous and subsequent GOPs can be obtained by reading the already recorded data again from the HDD 8. In order to add the positional information that is obtained as described above, the recording/reproduction apparatus shown in figure 1 performs the following operations.